# BRUSH MASTER™

## DEK® Chipper/Shredder with 2-Way Feed

# Owner's Manual

**This manual contains important safety instructions for Chipper/Shredder models: CH3, CH4, CH5.**
READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY SAVE THESE INSTRUCTIONS.

**For product questions or service,**
**CALL 1-919-550-3260**
**or go to www.brushbeast.com**

**When you call the help-line you will need to have the following information:**

**Date of Purchase:** _____
**Location of Purchase:** _____
**Serial #:** _____
**Model #:** _____

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The information and specifications included in this publication were in effect at the time of approval for printing.

**This manual contains important safety instructions for Chipper/Shredders**
READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY
SAVE THESE INSTRUCTIONS.

**This owner's manual is considered a permanent part of the chipper/shredder and should remain with the chipper/shredder if resold.**

# Contents

Warnings ..... 1
Product Specifications ..... 2
Component Identification ..... 3
Safety Information ..... 4
Operating Guidelines ..... 5
Assembly ..... 6
Important Engine Information ..... 7
Operating Instructions ..... 8
Maintenance & Storage ..... 9
Troubleshooting ..... 11
Limited Warranty & Service ..... 12

# Warnings

**WARNING**

**This symbol indicates important safety instructions which, if not followed, could endanger personal safety and/or property. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol—heed its warning.**

**WARNING**

**CARBON MONOXIDE GAS**
Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death.

The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**WARNING**

This machine has a rotating cutting blade capable of amputating hands and feet and throwing objects. Keep hands and feet out of openings while machine is running. Failure to observe these safety instructions could result in serious injury or death.

**WARNING**

**WARNING:** Do not operate this machine unless the chute deflector has been installed properly.

**WARNING**

Keep bystanders, helpers, pets, and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.

**WARNING**

Wear hearing and eye protection while operating this machine or if you are within 75 feet of this machine. Thrown objects which ricochet can cause serious injury to the eyes.

**WARNING**

Never wear loose clothes or long jewelry and keep your long hair under a headgear when operating machine. Never operate this machine in bare feet or sandals.

Never use machine on a slope or hard smooth floor.

**WARNING**

Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on you or your clothing, which can ignite. In the event of a gasoline spill, wash your skin and change clothes immediately.

**WARNING:** Do not deposit branches larger than 3” x 4” inches in diameter (depending on Model #, see Model Specifications table pg 2) in the side chute. Do not deposit branches larger than 1/4 inches into the funnel.

DO NOT force the branches into this machine, allow the machine to automatically feed through.

# Warnings

## Training

1. Read, understand, and follow all instructions on the machine and in the manual) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and their proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 18 years old to operate this machine. Children 18 years old and over should read and understand the operation instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Keep bystanders, helpers, pets, and children at least 75 feet from the machine while it is in operation. Stop machine if anyone enters the area.
6. Never run an engine indoors or in a poorly ventilated area. Engine exhaust contains carbon monoxide, an odorless and deadly gas.
7. Do not put hands or feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
8. Never attempt to unclog either the feed intake or discharge opening, remove or empty bag, or inspect and repair the machine while the engine is running. Shut the engine off and wait until all moving parts have come to a complete stop. Disconnect the spark plug wire and ground it against the engine.

**NOTE:**
**The operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.**

# Product Specifications

## Chipper/Shredder Model # Specifications

| Model # | CH3 | CH4 | CH5 |
|---|---|---|---|
| Maximum RPM | 3600 RPM | 3600 RPM | 3600 RPM |
| Horsepower | 11 HP | 14 HP | 9 HP |
| Emission Compliance | 49 States | 49 States | 50 States |
| Fuel Capacity (gal.) | 1.4 gal. | 1.4 gal. | 1.59 gal. |
| Engine Type | DEK | DEK | Subaru |
| Displacement (cc) | 401 cc | 401 cc | 265 cc |
| Walk or Pull | either | either | either |
| Chipper | Yes | Yes | Yes |
| Shredder | Yes | Yes | Yes |
| Maximum Cutting Thickness Diameter (in.) | 3” x 3” | 3” x 4” | 3” x 3” |

# Component Identification

## Fuel Tank
Use regular unleaded fuel. Always leave about 1” of air gap at the top of the tank for fuel expansion to prevent seepage or spills.

## Chipper Funnel
Use the chipper funnel to feed leaves only.

## Choke Lever
Move the choke lever to the CHOKE position to prepare a cold engine for starting.

## On/Off Switch
Set this switch to **On** before using recoil starter. Set switch to **Off** to switch off engine.

## Fuel Valve
Use the fuel valve to turn fuel on and off to engine.

## Recoil Starter
The starter handle is located on the engine. Pull the starter handle to start engine.

## Blade Access Hatch
Remove the blade access hatch to clean, remove, or sharpen the chipper/ shredder blade.

## Chipper Chute
Use the chipper chute to feed longer and/or thicker pieces of yard waste into the impeller for chipping. Depending on the model #, the chipper/shredder can cut up to a 3” x 4” in diameter piece of wood.

## Discharge Chute
Chipped materials are discharged through this opening. It may be left open or the chipper collection bag can be attached to the chute.

## Hardware Bag
This bag contains the assembly hardware, safety devices and chipper collection bag. Use the chipper bag to collect shredded or chipped material fed through the chipper chute or hopper assembly.

## Lawn Tractor or ATV Hitch
Use this hitch to tow the chipper/shredder behind a lawn tractor or ATV (maximum tow speed is 15 mph).

# Safety Information

## Your Responsibility

**Restrict the use of this chipper/shredder to persons who read, understand and follow the warnings and instructions in this manual and on the machine.**

Note: Not all safety labels shown may apply to your chipper/shredder.

## Preparation

1. Thoroughly inspect the area where the chipper/ shredder is to be used. Remove all rocks, bottles, cans, or other foreign objects which could be picked up or thrown and cause personal injury or damage to the machine.
2. Avoid discharging chipped material out of the discharge chute against a wall or on asphalt, concrete, or other hard surfaces as material being ejected could ricochet, causing injury to you or bystanders.
3. Always wear safety glasses or safety goggles to protect eyes during operation or while performing an adjustment or repair.
4. Wear sturdy, rough-soled work shoes and closefitting pants and shirts. Loose fitting clothing or jewelry can be caught in movable parts. Wear leather work gloves when feeding material in the chipper chute.
5. Before starting the engine, check bolts and screws for proper tightness to be sure the machine is in safe working condition. Also, visually inspect the chipper shredder at frequent intervals for any damage.
6. Maintain or replace safety and instructions labels, as necessary.
7. To avoid personal injury or property damage use extreme care in handling gasoline.
   a. Use only an approved gasoline container.
   b. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
   c. Never fuel machine indoors.
   d. Never remove gas cap or add fuel while the engine is hot or running.
   e. Allow engine to cool at least two minutes before refueling.
   f. Never over fill fuel tank. Leave at least 1/2 inch open below bottom of filler neck to provide space for fuel expansion.
   g. Tighten gasoline cap securely.
   h. If gasoline is spilled, wipe it off the engine and equipment. Move machine to another area and wait 5 minutes before starting the engine.
   i. Never store machine or fuel container inside near an open flame, spark, or pilot light (e.g., furnace, water heater, space heater, clothes dryer, etc.).
   j. To reduce the fire hazard, keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spills and remove any fuel soaked debris.
   k. Allow machine to cool at least 5 minutes before storing.
8. Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by the manufacturer).

## Safety Label Locations

These labels warn you of potential hazards that can cause serious injury. Read them carefully. If a label comes off or becomes hard to read, contact your GXi Outdoor Power dealer for a replacement.

## Safety Information

GXi Outdoor Power products are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your power equipment.

## Operator Responsibility

Know how to stop your power equipment quickly in case of emergency. Understand the use of all controls and connections. Be sure that anyone who operates this power equipment receives proper instruction. Do not let children operate the power equipment without parental supervision.

# Operating Guidelines

## READ THESE OPERATING GUIDELINES BEFORE YOU PROCEED ANY FURTHER

1. Do not put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands, and feet.
2. Before starting the machine, make sure the chipper chute, feed intake, and cutting chamber are empty and free of all debris.
3. Thoroughly inspect all material to be shredded and remove any metal, rocks, bottles, cans, or other foreign objects which could cause personal injury or damage to the machine.
4. If it becomes necessary to push material through the shredder hopper, use a small diameter stick. Do not use your hands or feet.
5. If the impeller strikes a foreign object or if your machine should start making an unusual noise or vibration, immediately shut the engine off. Allow the impeller to come to a complete stop. Disconnect the spark plug wire, ground it against the engine and perform the following steps:
   a. Inspect for damage.
   b. Repair or replace any damaged parts.
   c. Check for any loose parts and tighten to assure continued safe operation.
6. Do not allow an accumulation of processed material to build up in the discharge area. This can prevent proper discharge and result in kickback of material through the feed opening.
7. Do not attempt to shred or chip material larger than specified on the machine or in this manual. Personal injury or machine damage could result.

The funnel on the chipper/shredder is for leaves only. **Do not use the funnel for vines or long branches such as Weeping Willows as they may clog the flails.**

The side chute is for longer and/or thicker pieces of yard waste. Depending on your model, you may cut up to a 3” x 4” in diameter piece of wood.

8. Never attempt to unclog either the feed intake or discharge opening while the engine is running. Shut the engine off, wait until all moving parts have stopped, disconnect the spark plug wire and ground it against the engine before clearing debris.
9. Never operate without the shredder funnel, chipper chute, or discharge chute properly attached to the machine. Never empty or change discharge bag while the engine is running. Stop the engine when leaving the operating position.
10. Keep all guards, deflectors and safety devices in place and operating properly.
11. Keep your face and body back and to the side of the chipper chute while feeding material into the machine to avoid accidental kickback injuries.
12. Never operate this machine without good visibility or light.
13. Do not operate on a non-level surface.
14. Do not operate in a confined space.
15. Do not operate this machine while under the influence of alcohol or drugs.
16. Muffler and engine become hot and can cause a burn. Do not touch.
17. Never pick up or carry machine while the engine is running.
18. Do not leave this machine running while unattended
19. Keep children, bystanders, and pets 75 feet away.
20. Use only manufacturer approved accessories/ attachments.

# Assembly

**Required tools:** A Philips head screw driver

**Approximate assembly time:** 10 minutes

## 1. Remove the chipper from its carton.

Remove staples, break glue on top flaps, or cut tape at carton end and peel along top flap to open carton.

## 2. Verify all parts are in the chipper carton.

- Chipper Funnel
- Chipper engine and box assembly (pre-assembled)
- Chipper Chute
- Hardware Bag
- Trailer hitch and funnel handles packaged together

## 3. Disconnect the spark plug wire.

Before setting up your chipper/shredder, disconnect the spark plug wire from the spark plug and ground against the engine to prevent inadvertent starting. This step should be taken as a precaution whenever you are working on this machine.

## 4. Attach the chipper funnel.

**First**, attach the two handles to the sides of the funnel using the wrench provided and a Phillips head screw driver. Tighten the nuts securely.

**Second**, place the funnel over the opening on the chipper box, ensuring the rubber gasket is correctly aligned. Secure the funnel with the two “swing up bolts” and the one fixed bolt using the wrench provided. Tighten the nuts securely.

## 5. Attach the side chipper chute.

Place the chipper chute over the four bolts protruding from the side of the chipper box and secure the nuts tightly using the wrench provided.

## 6. Attach the chip collection bag.

Place the metal grommets of the bag over the wire loops located at the base of the engine. Wrap the bag under the bottom of the discharge chute and pull the draw string tightly and secure it.

## 7. Attach the trailer hitch.

Place the trailer hitch into the socket at the base of the chipper over the axle assembly. Insert the pin and secure with the locking cotter pin.

## 8. Re-connect the spark plug wire.

# Important Engine Information

## DEK Engine Only—See Manufacturer's manual for other

**NOTE: The chipper/shredder operates most efficiently at the factory set engine speed of 3600 RPM. The speed is controlled by the governor, and the throttle setting should not be adjusted. Do not attempt to adjust the speed of the engine.**

## Emission Control System Information

The U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your DEK engine within the emission standards.

The emission control systems on your DEK engine were designed, built, and certified to conform with EPA and California emission regulations.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair provider, using parts that are ''certified'' to EPA standards. We recommend the use of genuine DEK parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance.

The use of aftermarket replacement parts, not of the original design and quality, may impair the effectiveness of your emission control system. A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission control performance and must certify that use of the part will comply with emission regulations.

In the State of California a spark arrestor is required by law. Other states may have similar laws. Federal laws apply on all federal lands. If you equip the muffler with a spark arrestor, it must be maintained in effective working order.

**WARNING**

## Carbon Monoxide Gas

Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. To keep exhaust gas from accumulating, DO NOT use this product in a garage, basement, crawlspace, enclosed shed, or any other area without adequate ventilation. DO NOT use this equipment near ventilation ducts or open windows that may allow exhaust gasses to enter your home or business. ONLY operate this product outdoors.

The engine exhaust from this product and other components contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**WARNING**

## Fire and Burn Hazards

The exhaust system gets hot enough to ignite some materials.

- Keep the power equipment at least 3 feet (1 meter) away from buildings and other equipment during operation.
- Do not enclose this product in any structure.
- Do not smoke when refueling.
- Keep flammable materials away.
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot.
- Let the engine cool before storing.
- Refuel in a well ventilated area with the engine stopped.
- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the engine.

**DANGER**

This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury.

**WARNING**

**Always wear hearing and eye protection while operating this machine or if you are within 75 feet of this machine.**

**IMPORTANT: This unit is shipped without gasoline or oil in the engine. Be certain to fill the engine with gasoline and oil as instructed before operating your machine.**

**WARNING**

## Add Gasoline and Oil

**Step 1:** Add gasoline

**Step 2:** Add approximately 1.1 quarts of oil until the oil is about to overflow from the oil fill spout. A low oil sensor will prevent the engine from running unless the oil is COMPLETELY FULL.

**Never fill fuel tank indoors with engine running or until the engine has been allowed to cool for at least two minutes after running.**

## Starting the Engine

**Step 3:** Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug is fastened securely over the metal tip on the spark plug.

**Step 4:** Move choke lever on engine to CHOKE position. (A warm engine may not require choking).

**Step 5:** Turn the fuel valve to the ON position.

**Step 6:** Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let the rope rewind slowly. Repeat the previous steps until engine fires.

**Rapid retraction of the recoil starter cord can pull the starter cord back faster than you can let go. When starting the engine, pull the cord slowly until resistance is felt then pull rapidly to avoid kickback.**

**NOTE:** A noise will be heard when finding the start of the compression cycle. This noise is caused by the flails and fingers, which are part of the shredding mechanism, and it should be expected until the impeller reaches full speed.

**Step 7:** When engine starts, move choke control gradually to the RUN position.

**Step 8:** After engine is started, gradually release choke.

## Using the Chipper Shredder

Yard waste such as leaves and pine needles can be raked up and placed in the chipper funnel for shredding. **DO NOT PUT BRANCHES INTO THE CHIPPER FUNNEL. BRANCHES SHOULD BE FED INTO THE SIDE CHIPPER CHUTE.**

When using the side chipper chute to chip branches, it is important to let the chipper feed the branches through automatically. DO NOT attempt to force the branches through. If the branches do not automatically feed through, gently push the branch and then allow the chipper to automatically feed the branch through. Forcing branches into the side chute may wear the belt prematurely.

Once material is shredded by the hammers on the impeller assembly, it is discharged through the open discharge chute or into the chipper bag.

Do not attempt to shred or chip any material other than normal yard vegetation found (i.e., branches, leaves, twigs, etc.) Avoid fibrous plants such as tomato vines until they are thoroughly dried. Twigs and small branches can be fed into the chipper chute. (See model specifications for maximum cutting thickness.)

**IMPORTANT:** The hammer screen is located inside the housing in the discharge area. If the screen becomes clogged, remove and clean as instructed. For best performance, it is also important to keep the chipper blade sharp.

## To Empty the Chipper Collection Bag

- Stop the engine.
- Release the drawstring and remove the bag from the discharge chute.
- Empty bag and reattach to the discharge chute opening.

## Maintenance Schedule

| Item | Before each use | 20 hrs or every 3 months | 50 hrs or every 3 months | 100 hrs or every 6 months | 300 hrs or every 1 year |
|---|---|---|---|---|---|
| Engine Oil (Check) | X | | | | |
| Engine Oil (Change) | | X | | | |
| Air Cleaner (Check) | X | | | | |
| Air Cleaner Wash | | | X | | |
| Fuel filter Cup (Clean) | | | | X | |
| Spark Plug (Clean) | | | | X | |
| Spark Plug (Change) | | | | | X |
| Lubricate Release Bracket | | | X | | |
| Lubricate Hopper Assembly | | | X | | |
| Check Chipper Blade | | X | | | |
| Fuel Tank and Filter (Clean) | | | | X | |

**WARNING**

**Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.**

## Maintenance and Storage

1. Never tamper with safety devices. Check their proper operation regularly.
2. Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage and repair, if needed.
3. Before cleaning, repairing, or inspecting, stop the engine and make certain the impeller and all moving parts have stopped. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.
4. Do not change the engine governor settings or overspeed the engine. The governor controls the maximum safe operating speed of the engine.
5. Maintain or replace safety and instruction labels, as necessary.
6. Follow this manual for safe loading, unloading, transporting, and storage of this machine.
7. Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.
8. Always refer to the operator's manual for proper instructions on off-season storage.
9. If the fuel tank has to be drained, do this outdoors.
10. Observe proper disposal laws and regulations for gas, oil, etc. to protect the environment.

## If the Chipper Becomes Clogged:

If the discharge area becomes clogged:

- Stop the engine. Disconnect spark plug wire from spark plug and ground against the engine.
- Remove the large funnel and the clean out the access hatch on the side of the chipper engine box (as necessary).
- Reach in and clear the debris causing the blockage. Reinstall the funnel and the clean out access hatch.
- Connect the spark plug wire and restart.

**NOTE:** If the blockage is severe, the hammer screen within the discharge chute can be removed as well, providing greater access. To accomplish this, remove the pins and slide the flail screen out of the discharge chute.

**WARNING**

**Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine.**

## Removing and Sharpening the Blade

The chipper was shipped with one blade attached and one blade in the hardware bag. You can extend the belt life by operating the chipper with a sharp blade.

- Disconnect the spark plug wire and ground against the engine.
- Remove the blade access hatch and rotate the blade to align with the access hatch.
- Remove the flail screen in the discharge chute by removing the pins that secure it at the top and bottom of the screen.
- Remove the blade using a 3/16” Allen wrench on the outside of the blade and an adjustable wrench on the impeller assembly (through the discharge chute). Use a piece of pipe or wood to block the flails, preventing them from inadvertently turning.
- Rotate the impeller to expose the other blade holder and remove or add in the same manner.
- Add, replace or sharpen the blade as desired.
- When sharpening the blade, protect hands by using gloves and following the original angle of grind.Torque to 250–300 in. lbs.

**NOTE:** Make certain the blade is reassembled with the sharp edge facing upward.

## Changing or Tightening the Belt

**NOTE:** The belt is designed to be the weakest link in the mechanical linkage between the engine and the blade. This improves the safety and durability of the chipper/ shredder.

Occasionally, changing or tightening the belt is required.

To change the belt:

- Stop the engine and make certain the chipper/ shredder has come to a complete stop. Disconnect the spark plug wire from spark plug and ground against the engine.
- Remove the belt guard.
- Loosen engine mount bolts and release belt tension. Pry the belt off the pulley using a screw driver shaft as a wedge as you rotate the pulley. Place a new belt on the pulleys in a similar fashion.

To tighten the tension on the pulleys, follow the above steps plus:

- Scribe a mark on the base plate along the edge of the engine.
- Remove the belt from the pulleys.
- Remove the handle, discharge chute and screen.
- Loosen the four bolts securing the engine.
- Slide the engine about 1/8” further back.
- Tighten the engine mounting bolts securely.
- Re-install the belt and verify the tension. If the belt is still too loose, move the engine back another 1/8” by repeating the above steps.
- Reinstall guards, chutes, and screens.

## Cleaning the Chipper/Shredder

- Make sure engine is off.
- Wipe off machine with an oiled rag to prevent rust.
- If the fuel tank has to be drained, do so outdoors.
- Observe proper disposal laws and regulations for gas, oil, etc., to protect the environment.

## Storing the Chipper/Shredder

- Clean the equipment thoroughly.
- Wipe equipment with an oiled rag to prevent rust.
- Refer to engine manual for correct engine storage instructions.
- Store unit in a clean, dry area. Do not store next to corrosive materials such as fertilizer.
- Never store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.

# Troubleshooting

| Problem | Cause | Remedy |
|---|---|---|
| Engine fails to start | 1. Spark plug wire disconnected.<br>2. Fuel tank empty or stale fuel.<br>3. Throttle control lever not in correct starting position. (If equipped)<br>4. Choke not in CHOKE position. (If equipped)<br>5. Engine not primed.<br>6. Blocked fuel line.<br>7. Faulty spark plug.<br>8. Low oil | 1. Connect wire to spark plug.<br>2. Fill tank with clean, fresh gasoline.<br>3. Move throttle lever to FAST position.<br>4. Move choke to CHOKE position.<br>5. Prime engine.<br>6. Clean fuel line.<br>7. Clean, adjust gap, or replace.<br>8. Fill |
| Engine runs erratic | 1. Spark plug wire loose.<br>2. Unit running on CHOKE. (If equipped)<br>3. Blocked fuel line or stale fuel.<br>4. Water or dirt in fuel system.<br>5. Dirty air cleaner.<br>6. Carburetor out of adjustment. | 1. Connect and tighten spark plug wire.<br>2. Move choke lever to OFF position.<br>3. Clean fuel line; fill tank with clean, fresh gasoline.<br>4. Drain fuel tank. Refill with fresh fuel.<br>5. Clean or replace air cleaner.<br>6. See authorized service dealer |
| Too much vibration | 1. Loose parts or damaged impeller. | 1. See authorized service dealer. |
| Engine overheats | 1. Engine oil level low.<br>2. Dirty air cleaner.<br>3. Carburetor not adjusted properly. | 1. Fill crankcase with proper oil.<br>2. Clean or replace air cleaner.<br>3. See authorized service dealer. |
| Occasional skip (hesitates) | 1. Spark plug gap too close. | 1. Adjust gap to.030”. |
| Unit does not discharge | 1. Discharge chute clogged.<br>2. Foreign object lodged in impeller.<br>3. Low engine RPM. | 1. Stop engine immediately and disconnect spark plug wire. Clean flail screen and inside of discharge opening.<br>2. Stop engine and disconnect spark plug wire. Remove lodged object.<br>3. Always run engine at full throttle. |
| Rate of discharge slows | 1. Low engine RPM.<br>2. Chipper blade dull. | 1. Always run engine at full throttle<br>2. Replace chipper blade or see your authorized service dealer. |

**NOTE:** For repairs beyond the minor adjustments listed above, contact your nearest authorized service dealer.

# Limited Warranty & Service

| Products Covered by this Warranty | Length of Warranty: *(from the date of original retail purchase) | | |
|---|---|---|---|
| | Noncommercial /Nonrental | Commercial | Rental |
| Engine | 12 months | 12 months | 12 months |

*Length of Warranty: Consumable parts such as oil, spark plugs, filters, blades, and belts are not covered by this warranty. Warranty repairs will be made without charge for parts and labor for the first 6 months. After the first 6 months, the limited warranty covers the costs of replacement parts only.

## To Qualify for this Warranty:

The product must be purchased in the United States from a dealer authorized by GXi Outdoor Power, LLC to sell the product. This warranty applies to first retail purchaser/owner during the applicable warranty time period. No warranty registration is necessary to obtain warranty on Brush Beast or Turf Beast products. Save your proof of purchase receipt.

## To Obtain Warranty Service:

You must take the DEK Power Equipment product, accessory, replacement part, apparel or the power equipment on which the accessory or replacement part is installed, and proof of purchase, at your expense, to any DEK Power Equipment service location in the United States, who is authorized to service that product, during the service location's normal business hours. If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the manager of the service center involved; normally this will resolve the problem. However, if you should require further assistance, write or call the GXi Customer Service.

## What GXi Outdoor Power Will Repair or Replace under Warranty:

GXi will repair or replace, at its option, any part that is proven to be **defective in material or workmanship** under normal use during the applicable warranty time period subject to the exclusions stated herein. GXi has the right to recover warranty administration costs from the owner if the root cause of the malfunction is found to be other than defective material or workmanship. This warranty is void if the owner fails to follow the prescribed operating, maintenance and storage procedures described in this manual. This specifically refers to ensuring routine oil changes are made, that fuel stabilizer is used for long-term storage and that the chipper/shredder is used in accordance with the operating instructions.

Anything replaced under warranty becomes the property of GXi. Parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

## Exclusions:

This warranty does not cover: normal wear, contaminants in the fuel or oil; damage as a result of use in an application for which the product was not designed; damage caused by incorporation or use of unsuitable attachments or parts, unauthorized alteration, or other misuse and neglector; damage caused by failure to follow the prescribed warnings, operating practices, proper maintenance and storage procedures; parts affected or damaged by accident and/or collision; damage due to shipping, handling, storage or any causes other than defects in material or workmanship of the product.

## Disclaimer of Consequential Damage and Limitation of Implied Warranties:

GXI disclaims any responsibility for loss of time or use of the product, transportation, commercial loss, or any other incidental or consequential damage. Any implied warranties are limited to the duration of this written limited warranty.

**THIS WARRANTY IS VOID IF THE MANUFACTURING DATE AND THE SERIAL NUMBER ON THE EQUIPMENT HAS BEEN REMOVED OR THE EQUIPMENT HAS BEEN MODIFIED.**

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